

People and things

Manfred Eigen – the physics of biology



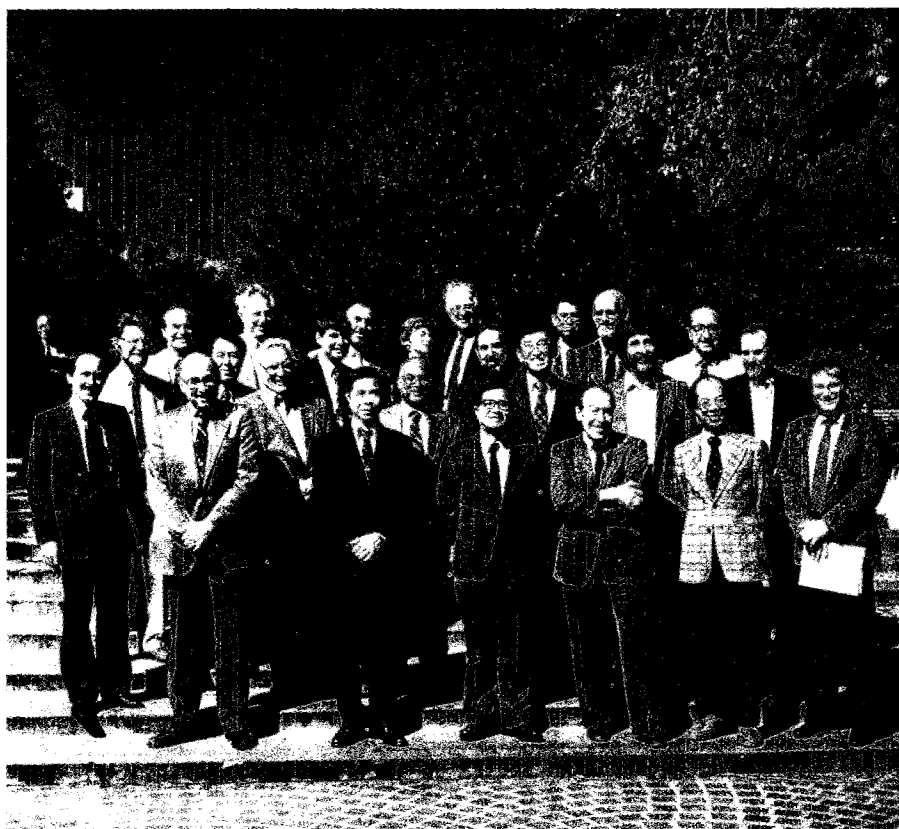
face between chemistry and biology, showing how certain hydrogen bonding (complementary base pairing) marks the threshold where molecules can be regarded as truly 'biological' rather than inertly chemical.

He described vivid simulations of cell reproduction which show how the 'error rate' of cell mutation compounds to produce new effects – evolution – in a way very reminiscent of phase changes in physical chemistry. At a certain stage, the information held in the cells 'melts', and new mutants emerge ('survival of the fittest').

During the two days of the symposium, many deep and thought-provoking ideas were aired, and

will be available to a wider audience with the publication of the proceedings. 'We have planted some trees,' said Ugo Amaldi, one of the prime movers behind the symposium, 'others will have to be added to make a real forest.'

A recent symposium at the University of California at Los Angeles marked the 70th birthday of Julian Schwinger (third from right, front row).



On people

On 15 May, Carlo Rubbia, Physics Nobel Prizewinner with Simon van der Meer in 1984, Director-General-Designate of CERN and Higgins Professor of Physics at Harvard, received the degree of Doctor of Science, honoris causa, from Boston University.

On 12 April Dubna's scientific community celebrated the 75th birthday of eminent Soviet scientist Venedikt Petrovich Dzhelepov. He was among the leading organizers of the Soviet national high energy physics centre which grew into Dubna's International Joint Institute for Nuclear Research, where he has been Director of the Laboratory of Nuclear Problems since 1956.

Faculty Position

Experimental Particle Physics University of Oregon

The Department of Physics at the University of Oregon invites applications for a tenure track faculty position in experimental particle physics. The appointment will be at the Assistant Professor level, although an outstanding candidate may be considered at the Associate Professor level. The appointment will begin in September 1989, adding a second member of the program in experimental particle physics that has been started this year. The new group is working on the construction of the SLD detector at SLAC and on SSC R & D projects. We expect the new faculty member to join research efforts on SLD. The applicant is expected to have a solid record of research accomplishments. The Department already has an active research group in theoretical particle physics, has experimental programs in several other areas and has good experimental shop facilities.

Applicants will be considered as they are received with a closing date of January 1, 1989. Applicants are requested to provide a curriculum vitae, a list of publications, and a brief statement of research interests and plans, and to arrange to have three letters of recommendation sent to the search committee. Inquiries, applications and recommendation letters should be addressed to:

Jim Brau,
Department of Physics,
University of Oregon,
Eugene, Oregon 97403 USA,
phone (503) 686-4751.

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University of Geneva

The Department of nuclear and particle physics announces an opening, beginning October 1st 1989, for a position of

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Switzerland,

where additional information may be obtained.

ASSISTANT PROFESSOR EXPERIMENTAL HIGH ENERGY PHYSICS

Florida State University

The Physics Department is seeking qualified candidates for a tenure-track faculty position. The experimental group has made major commitments to the collider programs, D0 (FERMILAB) and ALEPH (CERN), and the candidate is expected to have compatible research interests. The research group has close association with the Supercomputer Computations Research Institute with access to a CYBER 205 and ETA-10 supercomputers as well as a number of VAXes. Applicants should submit a resume, the names of at least three references and a statement regarding teaching and future interests to

Prof. Donald Robson, Chairman
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For further information call (904)6441492

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The high energy physics group of the

UNIVERSITÉ DE MONTRÉAL

presently active in the OPAL collaboration at LEP and in the HELIOS collaboration at the SpS at CERN, invites applications for three different positions:

1) Senior high energy experimental physicist.

This position is a tenured appointment for an accomplished physicist. Apart from the teaching and research activities normally required, the ideal candidate should have proven capabilities in leading a major research team within a large collaboration.

2) Experienced physicist in experimental particle physics.

This position, funded by TRIUMF, is not dependent upon funding for individual projects and involves the possibility of a stable appointment. The ideal candidate should have several years of active research experience in high energy physics after his doctorate. Preference will be given to applicants with experience in e^+e^- collider physics. The successful candidate will join the OPAL collaboration.

3) Postdoctoral fellow in high energy physics.

The candidate will join the group involved in the OPAL project. Preference will be given to physicists with experience in e^+e^- collider experiments.

All candidates should be willing to learn French, since this is the working language in our laboratory. Please send applications and CV's to:

Hannes Jeremie
Laboratoire de Physique nucléaire
Université de Montréal, C.P. 6128
Montréal, Qué. H3C 3J7
Canada

V.P. Dzhelepov, Director of the Dubna Laboratory for Nuclear Problems, celebrated his 75th birthday in April.



Erich Vogt (left), Director of the Canadian TRIUMF Laboratory in Vancouver, shows a model of the proposed TRIUMF KAON particle 'factory' to British Columbia Premier W. Vander Zalm (centre) and Advanced Education Minister S. Hagen.



Awards

The 1988 American Physical Society Prizes included: the Tom W. Bonner Prize to Raymond Davis of Pennsylvania for his use of nuclear reactions to detect neutrinos; the Dannie Heineman Mathematical Physics Prize to Julius Wess of Karlsruhe and Bruno Zumino of Berkeley for their work on supersymmetry (April issue, page 31); the W.K.H. Panofsky Prize to Charles Prescott of the Stanford Linear Accelerator Center for his role in the experiment demonstrating the interference between weak and electromagnetic interactions; the J.J. Sakurai Prize to Stephen Adler of the Institute for Advanced Study for his work in chiral symmetry; and the Robert R. Wilson Prize to



CERN Director General Designate Carlo Rubbia (right) with Italian Minister for Scientific Research and Universities Antonio Ruberti at the opening of the 'Italy at CERN' trade exhibition at CERN on 31 May.

(Photo CERN 544.5.88)

**Stanford Linear Accelerator Center
SLAC**

Cryogenics Engineer

Stanford Linear Accelerator Center, one of the world's leading physics research facilities located in the San Francisco Bay Area, has an opportunity for a Cryogenics Engineer to design cryogenics apparatus and systems, including superconducting magnets, particle physics detectors, and helium liquifaction. Your assignments will be the liquid argon cryogenics system and a set of two superconducting quadrupole triplets to focus the Collider beams for the new SLD detector now being constructed. You'll also be responsible for supervising engineers and designers, preparing and monitoring the budget and schedule, coordinating installation and commissioning.

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DIRECTEUR DE RECHERCHE

Applications are invited for a "Directeur de Recherche" position with the Physics Institute of the University of Neuchâtel. The holder of the position will join the nuclear and particle physics group, and participate in the experimental activities defined in the research plan. The group is presently involved in experiments at CERN, PSI/SIN and at the Gotthard underground laboratory.

Candidates should have a Ph.D. in physics or an equivalent title, and several years of experience in particle and nuclear physics. The appointment is for period of 4 years beginning January 1, 1989, and can be renewed every 4 years.

Additional information can be obtained from

**Prof. J.L. Vuilleumier,
Institut de physique,
A.-L.-Breguet 1,
CH-2000 Neuchâtel, Switzerland.**

Applications with a resume, a list of publications and references should be sent until August 31, 1988, to the **Département de l'instruction publique du canton de Neuchâtel, Château, CH-2001 Neuchâtel, Switzerland.**

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HEP Research Positions

Visiting Faculty at Stony Brook

The State University of New York at Stony Brook has several positions available for work on the DO Detector, which will have its initial running data run at the Fermilab 2 TeV pp Collider in late 1989. The Positions include Research Associate and/or research faculty appointments at levels commensurate with experience. Also available is a visiting faculty position for a term of 1-2 years. Stony Brook is involved in the construction of the central tracking detector and in the development and installation of the liquid argon-uranium absorber calorimetry. The group presently consists of 9 faculty and 9 research staff. Opportunities exist for hardware and software activities in support of both projects.

Applications, including vitae and three letters of reference, should be sent to:

**Professors
R. Engelmann/M. Rijssenbeek,
c/o Physics Department,
SUNY Stony Brook,
Stony Brook,
NY 11794-3800, USA.**

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Donald Kerst of Wisconsin for his many contributions to accelerator physics.

Books

The proceedings of the international conference marking the 40th anniversary of the discoveries of the pi- and V-particles, held at Bristol last July (October 1987 issue, page 11) have been published by Adam Hilger (Bristol and Philadelphia). The invited papers provide a fascinating glimpse into the particle physics techniques, and life, of yesteryear. Entitled '40 Years of Particle Physics', the book is edited by B. Foster and P.H. Fowler.

Meetings

The 8th International Symposium on High Energy Spin Physics will be held at the University of Minnesota, Minneapolis, from 12-17 September. Topics will include Symmetries and Spin, Static Properties of Leptons and Hadrons, Weak Decays,

Hadron and Lepton Interactions, Electron Accelerators, Hadron Beams, Hadron Sources, Hadron Polarimeters, and Targets. Workshops on Theory (6-10 September), Polarized Electron Sources and Polarimeters (8-9), Depolarizing Corrections in Future Accelerators (10-11) and Polarized Gas Targets

for Storage Rings (10-11) will also be held in Minneapolis preceding the Symposium. Further information from Sandy Smith, Conference Secretary, School of Physics and Astronomy, University of Minnesota, Minneapolis, Minnesota 55455, USA, telephone (612) 624-7886, bitnet SPIN88 at UMNACVX.

Electronic Mail

The CERN Courier editorial desk can be contacted through electronic mail using the EARN/BITNET communications network. The Editor's address is

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Contributions coming in through electronic mail are edited on the screen, and are now coded for typesetting before being sent to the printer through a telephone mod-

em link, making for increased flexibility.

For subscriptions (free!), changes of address, etc. the contact is

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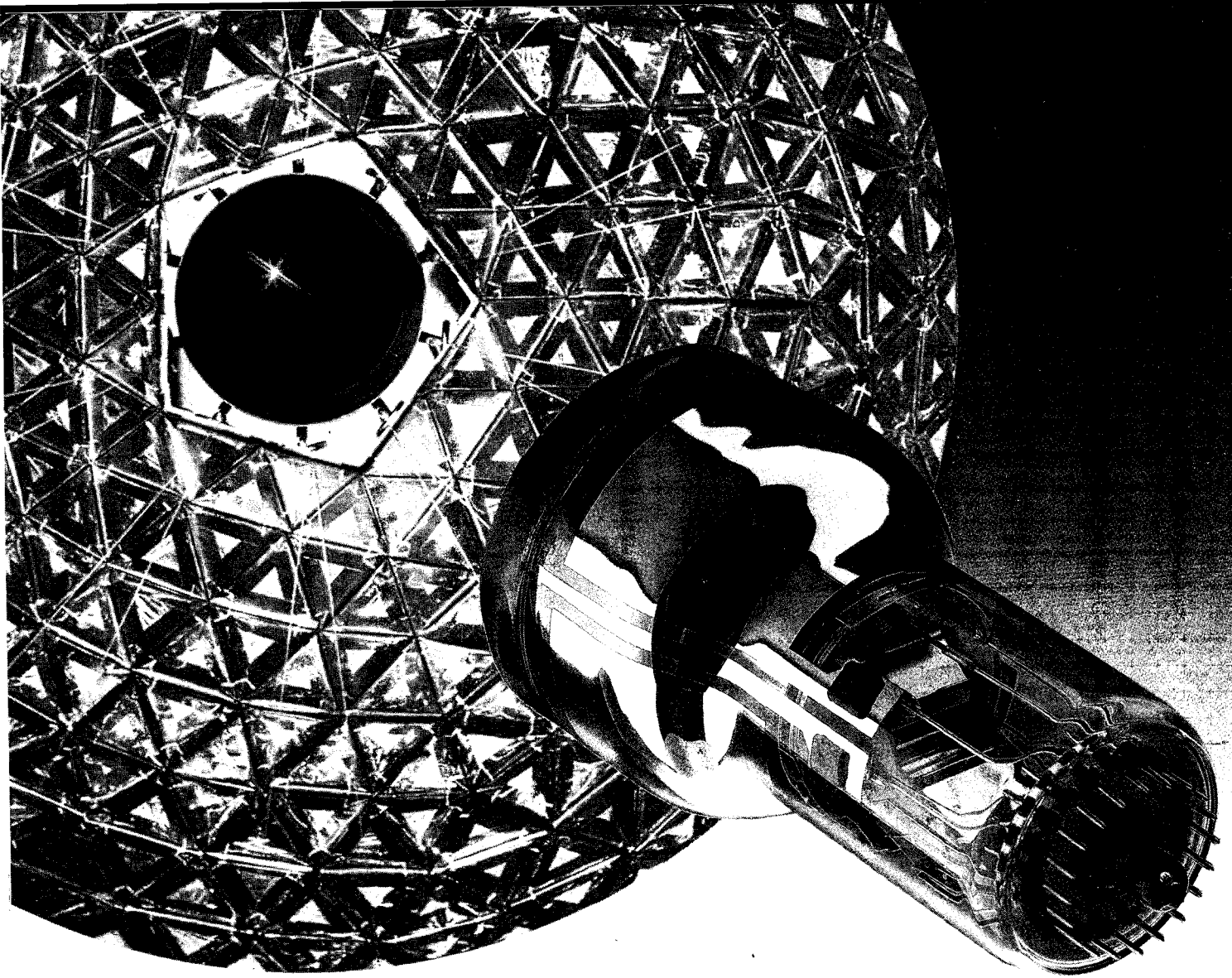


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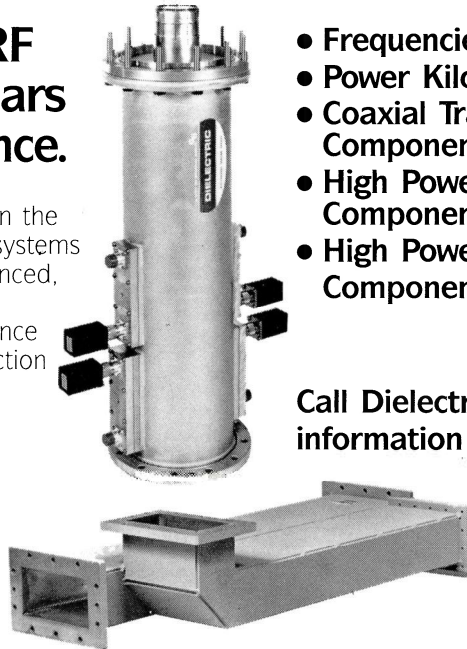
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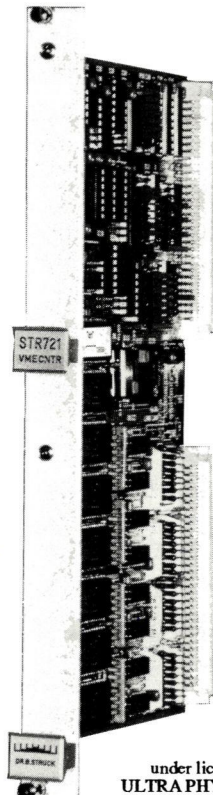
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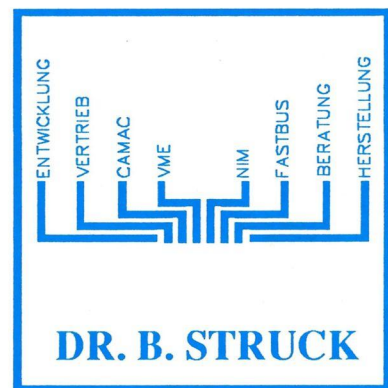
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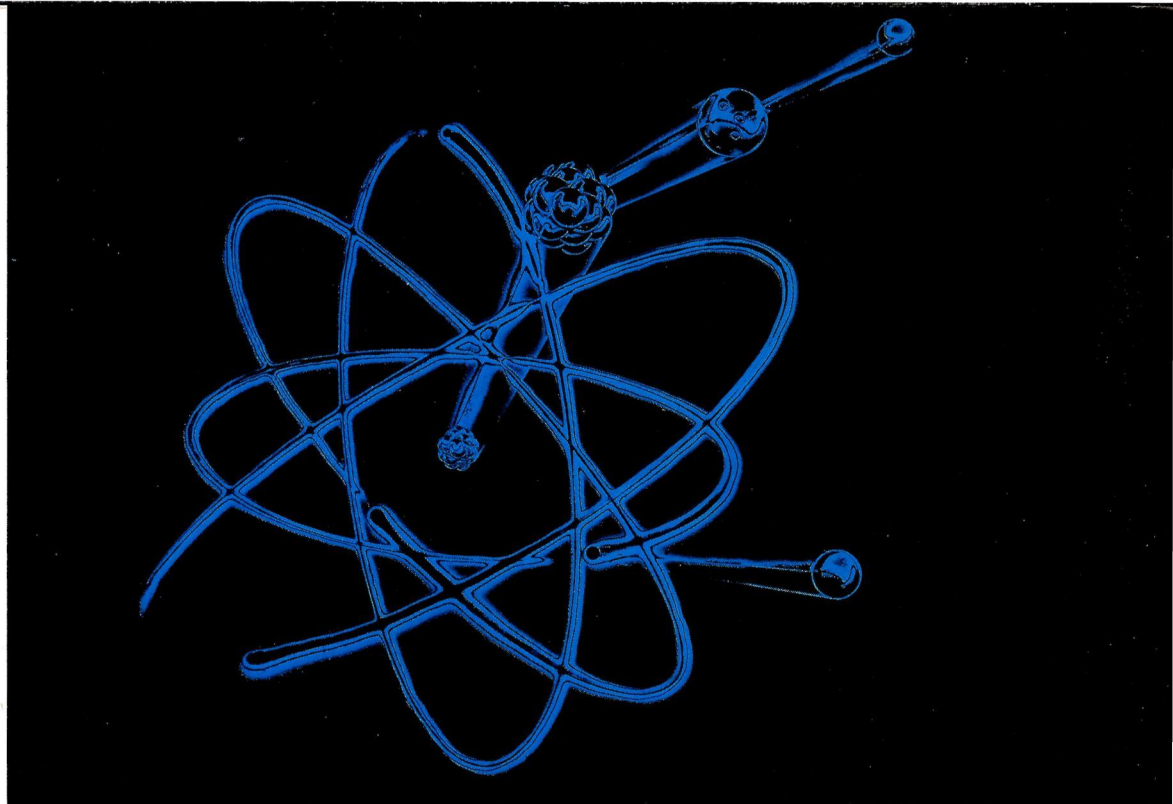


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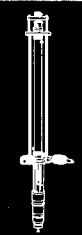
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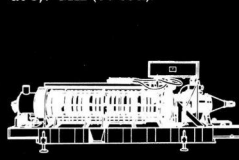
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